

DT-3073

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: (A) NAME: Kanton Zuerich vertreten durch die Erziehungsdirektion (B) STREET: Walchetur (C) CITY: Zuerich (D) STATE: Zuerich (E) COUNTRY: Switzerland (F) POSTAL CODE (ZIP): CH-8090 (G) TELEPHONE: +41-1-259 2388

(ii) TITLE OF INVENTION: Immunological Detection of Prions

(iii) NUMBER OF SEQUENCES: 9

(iv) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

(vi) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: EP 97102837.8 (B) FILING DATE: 21-FEB-1997

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 660 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE: (A) ORGANISM: Bos taurus (D) DEVELOPMENTAL STAGE: Adult

(vii) IMMEDIATE SOURCE: (B) CLONE: pbPrP3

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

ATGAAGAAGC GACCAAAACC TGGAGGAGGA TGGAACACTG GGGGGAGCCG
ATACCCAGGA 60

CAGGGCAGTC CTGGAGGCAA CCGTTATCCA CCTCAGGGAG GGGGTGGCTG
GGGTCAGCCC 120

CATGGAGGTG GCTGGGGCCA GCCTCATGGA GGTGGCTGGG GCCAGCCTCA
TGGAGGTGGC 180

TGGGGTCAGC CCCATGGTGG TGGCTGGGGA CAGCCACATG GTGGTGGAGG
CTGGGGTCAA 240

GGTGGTACCC ACGGTCAATG GAACAAACCC AGTAAGCCAA AAACCAACAT
GAAGCATGTG 300

GCAGGAGCTG CTGCAGCTGG AGCAGTGGTA GGGGGCCTTG GTGGCTACAT
GCTGGGAAGT 360

GCCATGAGCA GGCCTCTTAT ACATTTTGGC AGTGACTIONATG AGGACCGTTA
CTATCGTGAA 420

AACATGCACC GTTACCCCAA CCAAGTGTAC TACAGGCCAG TGGATCAGTA
TAGTAACCAG 480

AACAACTTTG TGCATGACTG TGTCAACATC ACAGTCAAGG AACACACAGT
CACCACCACC 540

ACCAAGGGGG AGAACTTCAC CGAAACTGAC ATCAAGATGA TGGAGCGAGT
GGTGGAGCAA 600

ATGTGCATTA CCCAGTACCA GAGAGAATCC CAGGCTTATT ACCAACGAGG
GGCAAGTTAA 660

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 219 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: YES

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE: (A) ORGANISM: Bos taurus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

10 Met Lys Lys Arg Pro Lys Pro Gly Gly Gly Trp Asn Thr Gly Gly Ser 1 5
15

30	Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg Tyr Pro Pro Gln 20	25
45	Gly Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro 35	40
60	His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro 50	55
75	His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Gly Trp Gly Gln 65	70
95	Gly Gly Thr His Gly Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn 85	90
110	Met Lys His Val Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly 100	105
125	Leu Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His 115	120
140	Phe Gly Ser Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met His Arg 130	135
155	Tyr Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Ser Asn Gln 145	150
175	Asn Asn Phe Val His Asp Cys Val Asn Ile Thr Val Lys Glu His Thr 165	170
190	Val Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys 180	185
205	Met Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg 195	200
	Glu Ser Gln Ala Tyr Tyr Gln Arg Gly Ala Ser 210	215

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GGGAATTCCA TATGAAGAAG CGACCAAAAC CTG

33

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "oligonucleotide"

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

CGGGATCCTA TTAAGTTGCC CCTCGTTGGT A

31

(2) INFORMATION FOR SEQ ID NO: 5:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: YES

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

Leu Ile His Phe Gly 1 5

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: YES

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu 1 5

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: YES

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

Gly Ser Asp Tyr Glu Asp Arg 1 5

(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: YES

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

Tyr Tyr Arg Pro Val Asp Gln Tyr Ser 1 5

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: YES

(iv) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

Cys Ile Thr Gln Tyr Gln Arg Glu Ser Gln Ala Tyr Tyr	1	5	10
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